

Arizona Standards and Future Problem Solving



Key AZ Standards: Language Arts (grades 9 - 12)

Standard 1: Reading

- R-P1:** Apply reading strategies such as extracting, summarizing, clarifying, and interpreting information; predicting events and extending the ideas presented; relating new information to prior knowledge; supporting assertions with evidence; and making useful connections to other topics to comprehend works of literature and documents.
- R-P4:** Evaluate technical journals or workplace documents for purpose, organizational pattern, clarity, reliability, and accuracy, and relevance of information.



Standard 2: Writing

- W-P1:** Use transitional devices; varied sentence structures; the active voice parallel structures; supporting details, phrases and clauses; and correct spelling, punctuation, capitalization, grammar and usage to sharpen the focus and clarify the meaning of their writing.
- W-P2:** Write a persuasive essay (e.g., editorials, reviews, essays, critiques) that contains effective introductory and summary statements; arranges the arguments effectively; and fully develops the ideas with convincing proof, details, facts, examples and descriptions.
- W-P5:** Write formal communications, such as a resume, manuals and letters of application, in appropriate formats, for a definite audience and with a clear purpose.

Standard 3: Listening and Speaking

Students effectively listen and speak in situations which serve different purposes and involve a variety of audiences

Standard 4: Viewing and Presenting

Students use a variety of visual media and resources ro gather, evaluate and synthesize information and to communicate with others.



Key AZ Standards: Math (grades 9 - 12)

Course: Algebra

Data Analysis and Probability

- 2M-P1 Construct and draw inferences, including measure of central tendency, from charts, tables. Graphs, and data plots that summarize data from real world populations
- 2M-P2 Use appropriate technology (e.g., graphing calculators, computer software) to display and analyze data.

Course: Statistics

Data Analysis and Probability

- 2M-P4 Explain the effects of sampling on statistical claims and recognize misuses of statistics.



Key AZ Standards: Science (grades 9 - 12)

Standard 1: Science as Inquiry

Students understand and use the processes of scientific investigation and scientific ways of knowing. They are able to design, conduct, describe, and evaluate these investigations. They are able to understand and apply concepts that unify scientific disciplines.

- 1SC-P1 Propose solutions to practical problems by synthesizing and evaluating information gained from scientific investigations

1SC-P3 Analyze and evaluate reports of scientific studies.

Standard 3: Personal and Social Perspectives in Science and Technology

3SC-P1 Apply scientific thought processes to personal and social issues.



*Additional standards from science as well as from social studies
will be addressed through the content of selected issues .*